Richard (Rick) Southworth

From an initial background background in cardiovascular biochemistry and physiology, Rick has been slowly mutating into an imaging scientist over the past two decades. He is currently Reader in Cardiac Molecular Imaging in the School of Biomedical Engineering and Imaging Sciences at King's College London.

His group focuses on two complementary goals: developing and validating innovative molecular imaging techniques grounded in cardiac biology, and then applying these tools to non-invasively characterise cardiovascular disease in both preclinical models and humans.

Core projects currently include the development of PET and SPECT imaging agents for detecting and stratifying cardiac hypoxia, and the non-invasive imaging of mitochondrial dysfunction as an early biomarker of cancer therapy-induced cardiotoxicity.